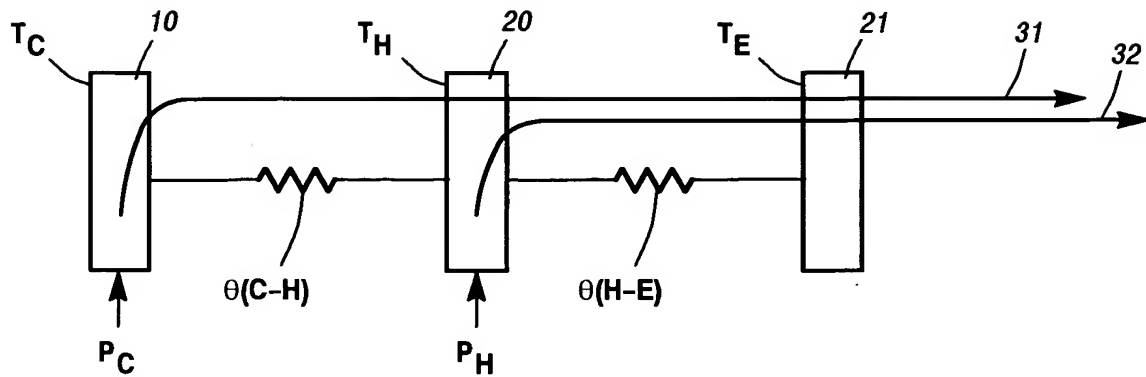
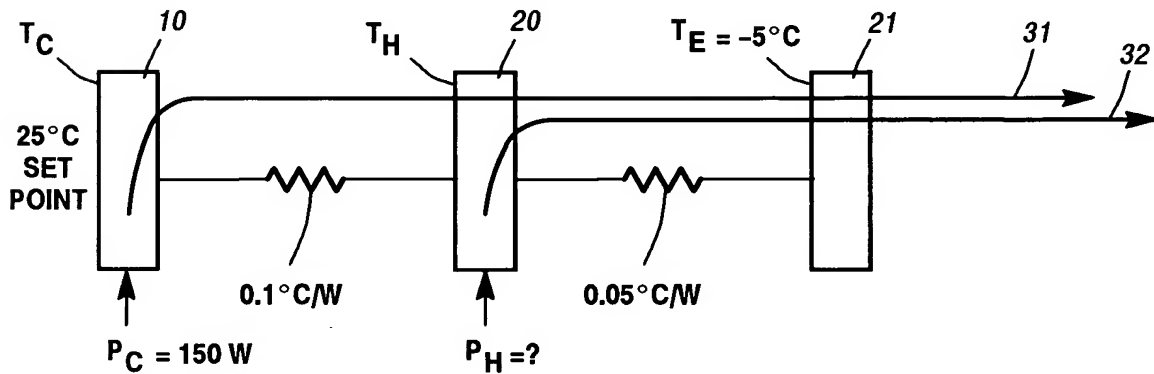


**Figure 1**



**Figure 2**



**Figure 3**

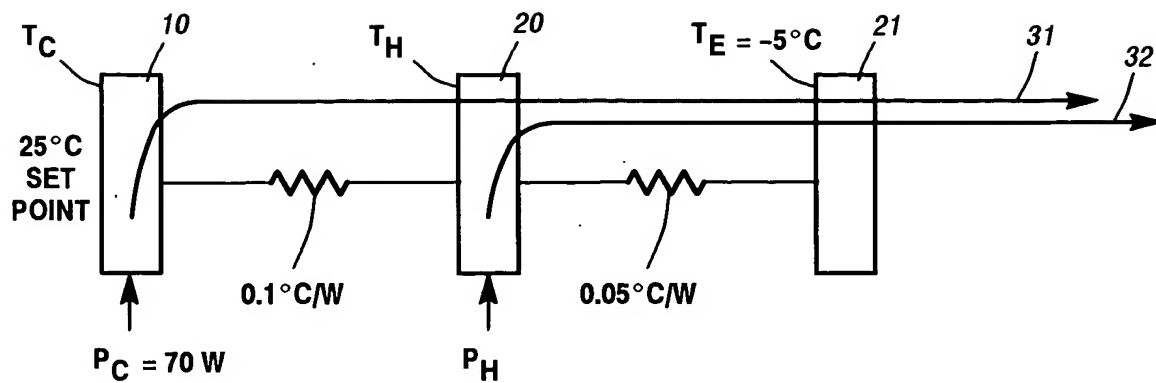
$$\text{eq. 1} \rightarrow T_C - T_E = P_C [\theta(C-H) + \theta(H-E)] + P_H [\theta(H-E)]$$

$$\text{eq. 2} \rightarrow 25 - (-5) = 150 (0.1 + 0.05) + P_H (0.05)$$

$$\text{eq. 3} \rightarrow 30 = 22.5 + 0.05 P_H$$

$$\text{eq. 4} \rightarrow P_H = 150 \text{ watts}$$

**Figure 4**



**Figure 5**

eg. 10  $\rightarrow 25 - (-5) = 70 (0.1 + 0.05) + P_H (0.05)$

eg. 11  $\rightarrow 30 = 10.5 + 0.05 P_H$

eg. 12  $\rightarrow P_H = 390 \text{ watts} \leftrightarrow \text{too big}$

**Figure 6**

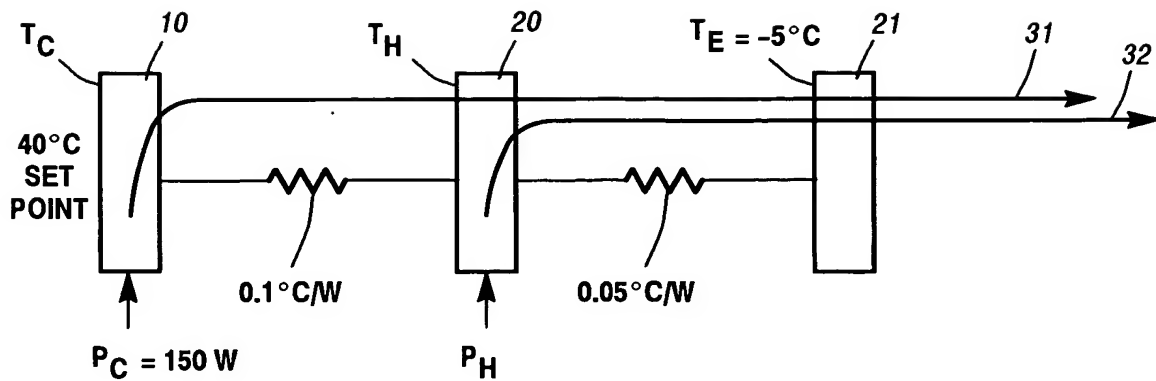
eg. 13  $\rightarrow \text{CONTROL CKT 27 SETS } T_E = +7^\circ\text{C}$

eg. 14  $\rightarrow 25 - (+7) = 70 (0.1 + 0.05) + P_H (0.05)$

eg. 15  $\rightarrow 18 = 10.5 + 0.05 P_H$

eg. 16  $\rightarrow P_H = 150 \text{ watts}$

**Figure 7**



**Figure 8**

eg. 20  $\rightarrow 40 - (-5) = 150 (0.1 + 0.05) + P_H (0.05)$

eg. 21  $\rightarrow 45 = 22.5 + 0.05 P_H$

eg. 22  $\rightarrow P_H = 450 \text{ watts} \leftrightarrow \text{too big}$

**Figure 9**

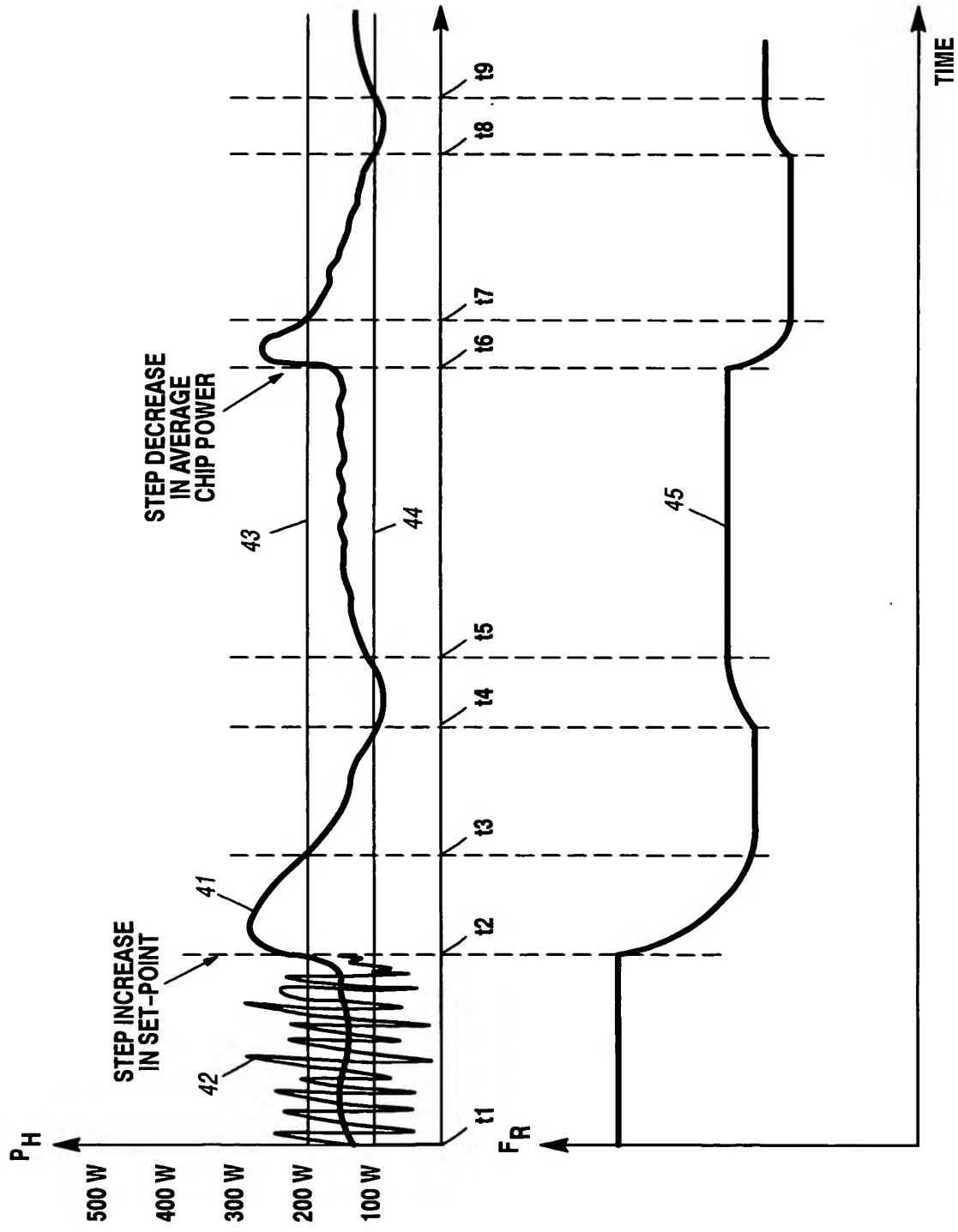
eg. 23  $\rightarrow \text{CONTROL CKT 27 SETS } T_E = + 10^\circ \text{C}$

eg. 24  $\rightarrow 40 - (10) = 150 (0.1 + 0.05) + P_H (0.05)$

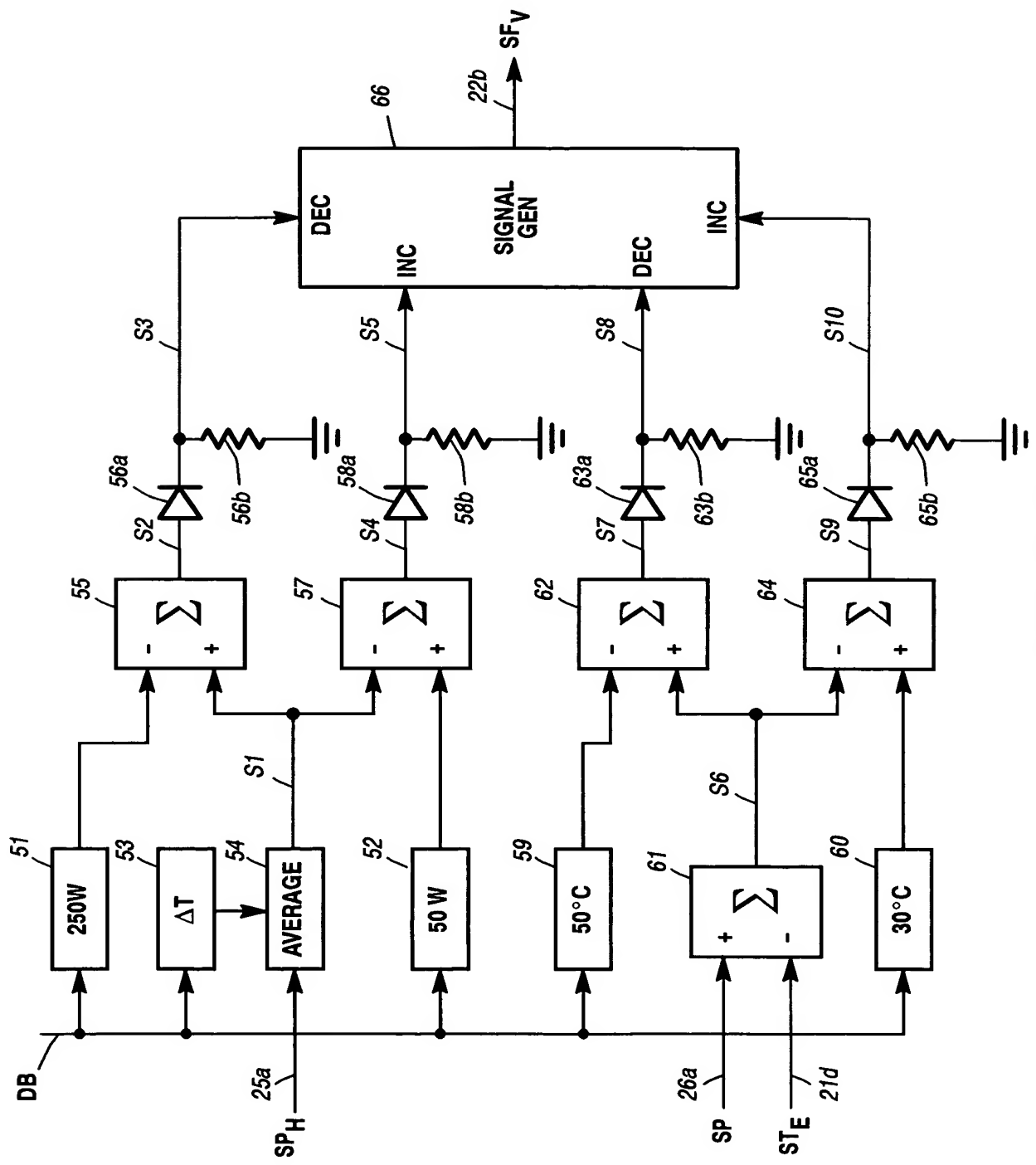
eg. 25  $\rightarrow 30 = 22.5 + 0.05 P_H$

eg. 26  $\rightarrow P_H = 150 \text{ watts}$

**Figure 10**



**Figure 11**



**Figure 12**